

PHIATON®

THE ULTIMATE LISTENING EXPERIENCE

PS 20 NC

Owner's guide

English

PS 20 NC

Primal Series Noise-Cancelling Half In-Ear Earphones

Thank you for purchasing Phiaton PS 20 NC earphones, featuring our innovative and exclusive noise-cancelling design optimized for maximum sound quality.

Thanks to their leading-edge noise-cancelling capabilities, the PS 20 NC half in-ear earphones actively reduce the external noise of subways, automobiles, airplanes and other sounds that interfere with music listening.

They are specially designed to reproduce the deep, rich and powerful bass as well as clean and clear high-frequency audio.

The luxurious high-gloss exterior adds impeccable style, while the ergonomic design ensures comfortable wear ability even after many hours of use – with no “listening fatigue.”

Additionally, the lightweight “super-mini” remote control is easy to use at home, in the office or on trips.

- Please pay careful attention to all warnings and cautions listed in the manual.
- Follow directions and carefully read usage guide for all components prior to using.
(Please keep user manual for further reference.)

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1. Cautions during Usage

1) Correct usage

- Use standard battery products.
- Do not use battery if it is damaged or leaking liquid.
- Mount batteries correctly according to polarity designations (-, +).
- Use eartips best fitted to user's ears.
- Properly place left and right (L and R) eartips according to designation.
- Minimize volume before audio listening.
- Adjust volume properly when using in public areas, so as to be considerate of others.

2) Cautions

- Do not place earphones near or in stove, electronic range, heating cooking device, or high pressure container.
- Separate earphones for storage away from metal such as coins, keys, and necklaces.
- Do not use earphones for any purpose other than that intended.
- Turn off power switch when storing earphones or when not in use.
- Remove batteries during long periods on non-usage.
- Keep earphones in storage case provided.
- Clean exterior of earphones with a clean cloth. (Do not use solvent.)
- Separate eartips to clean them with warm water. Check for any foreign materials before using and use only after drying eartips completely.
- Old eartips can be replaced by purchasing new ones from a Phiaton dealer.
- Dispose of fully discharged or damaged batteries pursuant to local regulations.
Batteries may also be returned to Phiaton Corp. for recycling. Refer to the contact page of www.phiaton.com for details.

3) ⚠ Warnings

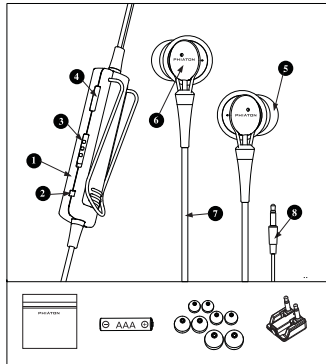
- **Do not allow children or pets to put earphones in their mouth.**
- **Keep earphones away from heating devices. Never place inside electronic stoves or other heating devices.**
- **Use earphones between -20°C~+50°C and avoid keeping them at either extremely low or high temperatures.**
 - The inside temperature of an automobile may reach as high as 80°C. Do not keep earphones and batteries inside vehicles or in closed spaces where temperatures may reach very high levels.
- **Do not dismantle or pierce earphones with sharp objects.**
- **Do not drop earphones from high places or subject them to strong external impact.**
 - If earphones become bent or twisted, the exterior may be damaged, and internal parts may malfunction.
- **Keep earphones in a dry place.**
 - Moisture or liquid may damage internal parts and circuitry.
 - If they become wet, do not turn earphones on. Separate them from batteries and use only after removing moisture with a clean dry cloth.
(Information regarding Phiaton service centers may be found at the contact page of www.phiaton.com.)
 - Avoid dropping earphones, as strong impact may cause damage.
- **Be aware that listening to music at high volumes for long periods of time may be harmful to hearing.**
If used while driving, be aware that important outside sounds such as signals or warnings may be inaudible. As this may be dangerous to both earphone wearer and others, please refrain from using while driving.

Warning about Battery Usage

- Keep batteries away from children.
- Be sure to use only disposable AAA alkaline batteries. (In case of using rechargeable batteries (Ni-MH type), the product operating time may be shorter than the normal operating time.)
- Check battery polarities.
- Immediately remove discharged batteries.
- Dispose of discharged batteries in the proper way.
- Do not use battery products that show signs of liquid leakage.
- Utilization of damaged batteries may be harmful to the health. If a battery is damaged and internal liquid is secreted and comes in contact with the skin, wash fully with running water for one or two minutes.
- Avoid strong impact to batteries.

2. Before Usage

1) Name and accessories of each part of the PS 20 NC earphones



- ① Control Section: Includes embedded noise reduction circuitry.
- ② Power Indicator: Red light is turned on during operation. Flickering indicates battery replacement is needed.
- ③ Power Switch: Turns noise reduction function ON or OFF.
- ④ Monitor Button: Pressing during operation of noise reduction function makes neighboring sounds audible.
- ⑤ Eartips: Varying sizes are user-selectable
- ⑥ Earphone: Includes embedded microphone to reduce noise
- ⑦ Cord: Y-type 1.5 m
- ⑧ Plug: 3.5 mm mini plug

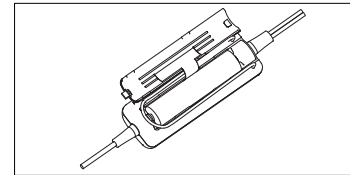
Supplied Accessories

- Airplane adaptor
- Carrying case
- Eartips for replacement [x-small/small/medium/large size]
- One AAA battery

2) Battery mounting and removal

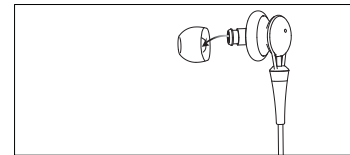
One AAA battery is needed to operate PS 20 NC. (included)

- ① Turn “OFF” power switch.
- ② Open by pushing battery cover in rear of product.
- ③ Correctly mount batteries after checking for proper polarity on inside cover.
- ④ Close battery cover.
- ⑤ Take battery out for removal in the reverse installation order after turning “OFF” power switch.



3) Eartip selection and replacement

- ① Medium size eartips are mounted with product.
- ② If these don't fit user's ears properly, replace with x-small, small, or large eartips.
- ③ If eartips don't fit correctly, noise reduction function or overall sound delivery may be less than optimal.
- ④ Be gentle when separating eartips from the earphones for replacement.



3. Product Usage

1) Wearing earphones

The earphones can be used for audio listening with noise reduction (ON) or without noise reduction (OFF).

Check the representation of the left side and right side and adjust them to the shape of ears when wearing the earphones.

2) Listening without noise reduction function (OFF)

To use in this manner (without noise reduction function), turn power switch to OFF.

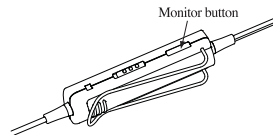
3) Listening with noise reduction (ON)

1. Connect product plug to output terminal of audio device.

Caution: Connect only after setting volume on audio device to minimum level.

2. When power switch of earphones is turned on, power display LED is turned on.

3. Adjust volume of audio device to listening preference.



4) Monitor function

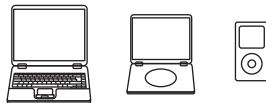
Pressing the monitor button during operation of noise reduction function allows the wearer to hear neighboring sounds.

The audio of the device is blocked at this time.

5) Connecting home audio devices

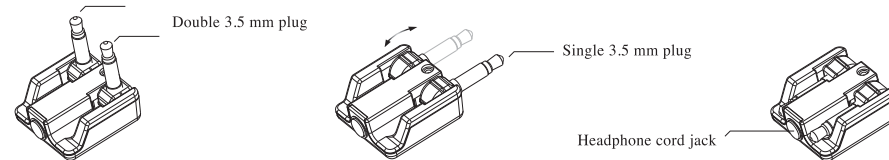
CD, DVD, MP3, or digital audio player

Desktop or laptop personal computer



6) Connecting to airplane audio systems

- An adaptor for airplane usage is provided as a component of PS 20 NC by Phiaton and can be used with the two plugs rotated respectively.
- For airplane audio systems providing two jacks use both plugs of the adaptor.
- For airplane audio system providing one jack, use only the first plug.
- If volume is too low during usage, remove adaptor and plug connection cord directly to the 3.5mm output jack.



4. Product Specification

Type : Active noise cancelling Half In-ear Earphones

Driver Units : Dynamic 14.3 mm

Frequency range : 15 ~ 22,000 Hz

Noise reduction : Up to 25dB (95%)

Sensitivity : 101 dB / mW

Impedance : 26 ohms

Battery : AAA (alkaline)

Battery life : Up to 50 hours (when using the alkaline battery)

Cord length : 1.5 m

Cord Style : Asymmetric

Plug type : 3.5 mm stereo plug

Weight : 32.5 g /1.15 oz. (with battery)

Supplied Accessories : Airplane adaptor

One AAA battery

Carrying case

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5. FAQ

1) Troubleshooting

Consult the following table if there is a problem with using the earphones.

Or refer to the technical support page by visiting www.phiaton.com.

Problem	Solutions
Low or no sound	- Check to make sure earphone plug is properly connected to extension cord or audio device. - Check to be sure audio device is operating properly. - Check volume of audio device.
No reduction of the neighboring noise	- Check overall state of eartips. - Make sure eartips are well-fitted to user’s ears. (Without proper fit, noise reduction function and overall earphone audio may be less than optimal). - Turn switch to OFF and ON position again. (If neighboring noise is not within range of noise reduction frequencies, reduction may be negligible.) - Replace battery. - Clean battery contact in battery casing.

Problem	Solutions
Abnormal sound	- Turn down volume of audio device. High volume may cause abnormal sounds. - Replace battery. - Check for earwax buildup on earphone tube and eartips.
Flickering product indicator (LED)	- Replace battery. (LED flickers when battery needs replacing.)